

The M. A. C. RECORD.

MICHIGAN STATE AGRICULTURAL COLLEGE.

Vol. 11.

LANSING, MICHIGAN, TUESDAY, DEC. 19, 1905.

No. 14

Y. W. C. A.

The Thursday evening meeting was conducted by Miss Jean Inglis. The topic was "Christ in our real lives." The scripture lesson was taken from the twelfth chapter of Romans. Our leader spoke on the topic followed by several of the members who spoke of our duty to Christ and our fellow students.

A short business meeting followed.
Dec. 10.

Y. M. C. A.

Mr. Hurst spoke in the Thursday evening meeting, taking for his subject the words of Paul to Timothy, "Remember Jesus Christ," with thoughts suggested by Robt. E. Speer's book of that name. The meeting was well attended and served well the end of a term's work.

In the beginning of the winter term a special class in Bible study will be arranged for the short course men. Studies in the Life of Christ will be taken up.

Mr. Warren L. Rogers, of the University of Michigan, will speak in the first Sunday evening meeting of the term.

COLLEGE EDUCATION.

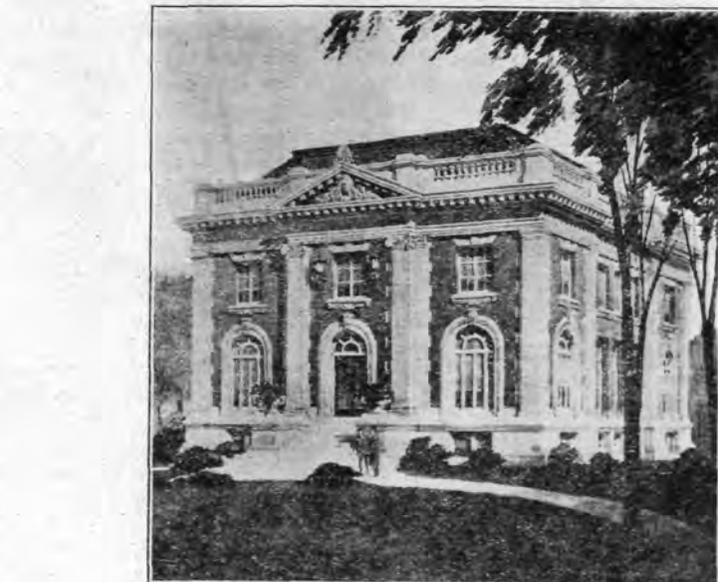
The following is an extract from an article by Alson Secor, in the *Twentieth Century Farmer*:

Going to college should not be regarded as a fad, or a vacation from farm duties. Some fond parents want it said that their children are college graduates, not so much for the value of an education, but as a sort of honor to boast of. It tickles their pride. A wrong motive. Some boys and girls have no real desire to learn, but they think college life is sort of a picnic and they long to get away from home and have a lark. Wrong motive. I do not appeal to either of these.

If you have no desire to be somebody, if you have no hungering for knowledge that you cannot get in the ordinary way, then you have no business in college. Have your fun elsewhere. Get out of the way of those who do want to learn. Instead of the name "college graduate" being an honor to you, it will make you a laughing stock among men. If you haven't brains to develop, then don't spend money on a college course. The college cannot make brains. It can only train and develop what you take there. It can give you an education, as your mother used to give you a dose of castor oil. It can only direct you to the fount of knowledge, but cannot make you drink.

Young man, if you want to be a better man than the average, if you want to get a broader view of life that you may enjoy life more fully and be of greater value to the world—if you really long to live instead of exist—go to some good college.

The statistics of education show that the college trained man has many fold the chances for worldly



MEMORIAL BUILDING.

We present to our readers this week a half tone of the proposed new memorial building together with the cuts of the floor plans.

The committee having the matter in charge has drafted a letter, copies of which will be mailed to the alumni and friends of the institution. This letter sets forth the need of

success over the high school graduate. The uneducated has absolutely no chance whatever. There is not a character of prominence in the world but what has some education. Ignorance is cheap. There is plenty of it. The possessor has something the world will not pay for. The higher education, the better trained the brain power of man, the less competition and the greater its market value. You need not go off the farm to see this is true. You would pay \$40 per month for an intelligent man sooner than pay \$10 for an ignoramus as a farm hand. One can make money for you; the other costs you money.

Let us consider two boys of equal ability. The one takes \$800 and spends four years at an agricultural college. He comes out with a practical education, but with no cash. He must work awhile for some one else before he has his \$800 back again. But a college graduate can get at least \$50 per month right at the start. Many get twice that. In two years or less he has his \$800 back and his education is increased by the two years' experience. His value of earning capacity is steadily increasing. If he chooses to buy a farm with the \$800 he is well equipped with the scientific and practical knowledge that will enable him to buy stock and machinery wisely and manage his affairs so as to get the best returns. His circumstances may force him to follow this or that branch of agriculture. He is equipped with the knowledge of many special branches and can choose between them. His life is not narrowed by any circumstance. He is superior to them.

The other boy doesn't want to take four years of his time getting an education. He takes his \$800

and buys a farm. He is too young to have judgment, too ignorant to start wisely or farm well. He is handicapped from the very start, and the older he gets the more he sees it. The rush to keep even prevents his acquiring any book learning and soon the desire is gone. He reaches an age when he cannot comprehend what the agricultural press is talking about. The world has outstripped him in the race. He is narrow in his conceptions, he is limited in his capacity. He has learned but one thing and can do no other.

The last senior dinner was given on Thursday at five-thirty o'clock. Miss Forence Case acted as hostess. Pres. and Mrs. Snyder and Miss Bemis were the guests. English violet favors and ferns were the table decorations.

MENU.

Bouillon	Fruit Cocktails	Bread Sticks
Blanket White Fish	Potato Roses	
	Parker House Rolls	
Baked Tenderloin	Sweet Potatoes	
	Canton Sherbet	
Creamed Peas	Saltines	
Banana Salad	Macaroon Cream	
	Cafe Noir	
Curled Celery	Mints	Salted Nuts.

One of our institute workers states that the three subjects calling for the most attention this year are, the Dairy, Good Roads and Corn. The first two named on account of recent laws affecting the same to quite an extent and on the subject of corn Michigan farmers are becoming greatly interested in regard to breeding and selecting of seed.

ALUMNI.

'89.

We are in receipt of a neat little pamphlet on "The Ornamentation of the City Lot," by H. E. Weed, of the above class, a landscape architect of Chicago. The following topics are made the subjects of this work: Location of the house, planting of trees, evergreens, massing of shrubs, and the importance of a planting plan. Mr. Weed has already published two pamphlets, "The House Beautiful," and "The Landscape Architect and His Work." Any of these may be had by writing Mr. Weed at 1715 Railway Exchange.

'96.

R. L. Clute is teaching agriculture in connection with the public schools in the P. I. He is located in the broad valley north of Manila through which the one railroad runs. Its chief production is rice and it is expected to soon introduce rice threshing and hulling in this vicinity. Mr. Clute's address is San Isidio Nueva Ecigo, P. I.

'97.

Prof. H. E. Van Norman, who for the past eight years has been connected with the agricultural department of Purdue University, has accepted a position at the head of the dairy department of the Pennsylvania State College. Prof. Van Norman came to the university in 1897 as farm superintendent, and from the first has proved himself a most valuable instructor both at the university and in the educational circles of the state. * * *

In Lafayette circles Prof. Van Norman is well known. He is president and organizer of the Young Men's Christian Federation, which is an organization of all the young people's societies, and which has now been in existence for two years.

In Prof. Van Norman's departure the university loses one of her best men and Lafayette one of her best citizens.

He will leave to assume his new duties as soon as his work can be closed up at Purdue. His successor has not yet been announced.—*Lafayette Morning Journal*.

'04.

A copy of the Christian Conservator, Huntington, Ind., has been received. The issue contains information concerning Central College located at that place and presents a cut of F. A. Loew of the above class who has charge of the science department. The work includes one year of chemistry, one year of botany and considerable work in geology and zoology. We quote the last paragraph of Mr. Loew's article which sums up the work of his department, "As a whole the science courses at Central College are designed to give the students a beginning in all the natural sciences so that he can intelligently choose as to his future work in these lines.

THE M. A. C. RECORD.

PUBLISHED EVERY TUESDAY DURING THE COLLEGE YEAR BY THE MICHIGAN STATE AGRICULTURAL COLLEGE

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Subscription, 50 cents per year. Remit by P. O. Money Order, Draft or Registered Letter. Do not send stamps.

Address all subscriptions and advertising matter to the College Secretary, Agricultural College, Mich. Address all contributions to the Managing Editor.

Business Office with Lawrence & Van Buren Printing Co., 122 Ottawa St. E., Lansing, Mich. Entered as second-class mail matter, Lansing, Mich.

This paper is occasionally sent to non subscribers. Such persons need have no hesitation about taking the paper from the post-office, for no charge will be made for it. The only way, however, to secure the paper regularly is to subscribe.

TUESDAY, DEC. 19, 1905.

Christmas vacation is here once more and we trust that wherever the M. A. C. students are they are enjoying the same. Work of preparing standings goes on while you read this number of THE RECORD, and we trust that when you get that little yellow envelope it will not in the least affect your holiday joys.

In Botany 8, (Economic Fungi), the following species of disease-producing fungi have been studied by the class of Agricultural Juniors during the fall term:

- Puccinia malvacearum* (mallow rust).
- Phytophthora infestans* (late blight of potato). A downy mildew.
- Puccinia maydis* (corn rust).
- " *asparagi* (asparagus rust).
- " *graminis* (grass rust).
- " *rubigo-vera* (grass rust).
- " *coronata* (oat rust).
- " *peckiana* (raspberry rust).
- Synonym, *Caeoma nitens*.
- " *menthae* (mint rust).
- Gymnosporangium globosum* (orchard rust). Cedar Apple.
- Uromyces trifolii* (clover rust).
- Phragmidium subcorticium* (rose rust).
- Ustilago maydis* (corn smut).
- Ustilago tritici* (wheat smut).
- Ustilago avenae* (oat smut).
- Tilletia foetens* (stinking smut of wheat).
- Tilletia laevis* (stinking smut).
- Erysiphe graminis* (grass mildew).
- Uncinula spiralis* (a powdery mildew).
- Sphaerotheca castagnei* (powdery mildew).
- Phyllactinia suffult* (a powdery mildew).
- Microsphaera alni* (powdery mildew).
- Podosphaera oxycanthae* (hawthorn mildew).
- Penicillium glaucum* (blue mold).
- Exoascus pruni* (plum pockets).
- " *deformans* (leaf curl of peach).
- Plowrightia morbosa* (black knot of plum and peach).
- Sphaerella fragariae* (strawberry leaf-spot).
- Sclesotinia fructigena* (brown rot of plum and other fruits).
- Venturia pomi* (apple scab).
- Fusicladium pininum* (pear scab).

- Cystopus candidus* (white rust of crucifers).
- Cystopus bliti* (oosporic stage of).
- Septoria dianthi* (leaf-spot of carnations).
- Septoria piricola* (leaf-spot of pear).
- Sphaeropsis malorum* (black rot of apple).
- Glomerella rufomaculans* (bitter rot of apple and other fruits).
- Cercospora beticola* (a leaf-spot disease of sugar-beets).
- Goesporium venetum* (anthracnose of raspberry canes and leaves).
- Colletotrichum lindemuthianum* (bean anthracnose).
- Macrosporium tomato* (black rot of tomato).

The following saprophytic fungi were also examined in some detail: *Morchella esculenta* (edible morel).

Bovista plumbea (puff-ball). All the morels, puff-ball, clavarias, and Hydnums are edible. Not one of the species belonging to these groups is known to be poisonous.

Dr. Dandeno had charge of the course. Miss Bach assisted by conducting the laboratory work of one of the three divisions.

Prof. Shaw left Thursday evening for Chicago, where he will attend the big show. The judging team representing M. A. C. accompanied him and will have a chance to rest up and look over the stock before the work of judging begins. The team is composed of C. A. Wilson, F. A. Stiles, L. R. Slot, R. C. Potts, R. G. Potts and F. A. Farley.

The following have been chosen as the All Michigan collegians for 1905: Ends, Holdsworth and Boyle, M. A. C.; tackles, Frye, Albion, and West, Mt. Pleasant; guards, Roaks, Kalamazoo; and Haus, Olivet; center, Angell, Alma; captain and quarterback, Small, M. A. C.; halves, McKenna, M. A. C., and Post, Kalamazoo; full-back, Bliss, Albion.—*Detroit Tribune*.

As most of the readers of the RECORD have heard, twenty to thirty years ago, the Agricultural College was much criticised because it did not send every student back to the farm, and because every student that went out to farm was not well known as eminently successful. At the recent meeting of the State Horticultural Society held at Grand Rapids, the remark was more than once made that the college was very popular.

Instructors Craig and McCue have sent out a circular letter to the potato growers of the state asking their experience in regard to the potato blight which destroyed several thousand dollars worth of potatoes in this state the past season. The experiments looking to the production of blight resisting varieties and also those of spraying are to be continued. Papers were presented by the above instructors on these subjects at the Hort. meeting.

The following M. A. C. people were seen at the Horticultural meeting held at Grand Rapids recently. Names have been arranged accordingly to classes: C. J. Monroe, '57-60; A. G. Gulley, '68; James Sat-

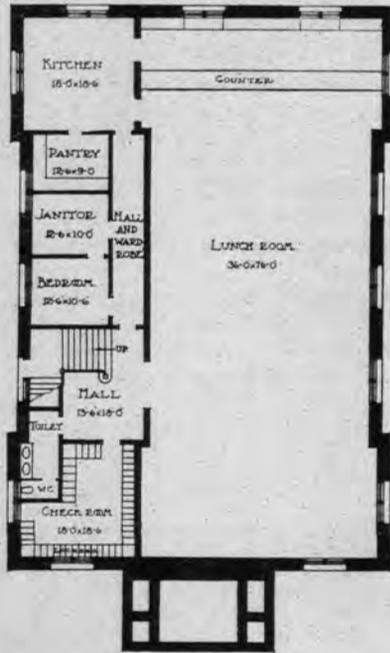
terlee, '69; C. W. Garfield, '70; F. P. Arthur, '77-'79; C. E. Bassett, '83-'84; C. B. Cook, '88; L. A. Bregger, '88; W. A. Taylor, '88; John Nellist, '94; Geo. Chatfield, sp. '99; Paul Thaver, '00; C. H. Hilton, '00; J. P. Munson, sp. '00; F. D. Wells, sp. '00; Deborah Garfield, W. W. Dickerson, sp. '01-'02; C. A. McCue, '01; Burt Wermuth, '02; A. G. Craig, '02; W. S. Palmer, '02; Mrs. Nellist (Clara Waterman, '02); S. B. Hartman, '03; E. P. Simpson, sp. '03-'04; C. G. Woodbury, '04; Elva Davis, '04; A. H. Welch with '06; T. A. Far-

'04.

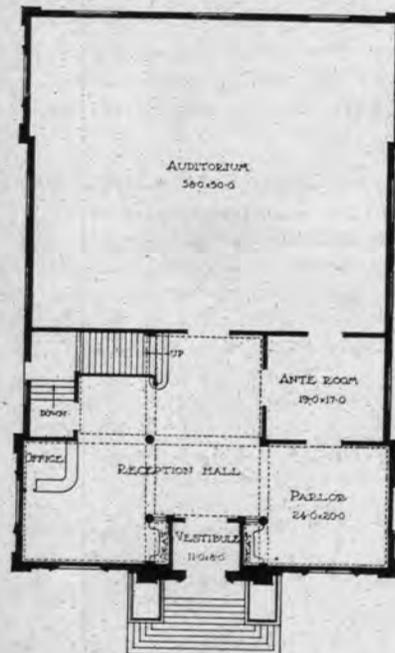
W. O. Thompson has recently been elected to a position with Booker T. Washington's school at Tuskegee. He will be employed as instructor in live stock breeding and also have charge of the livery and transfer department. In this department are 112 horses and mules, 60 wagons and carts, and 30 carriages and buggies. Mr. Thompson begins his new work Jan. 1.

'03.

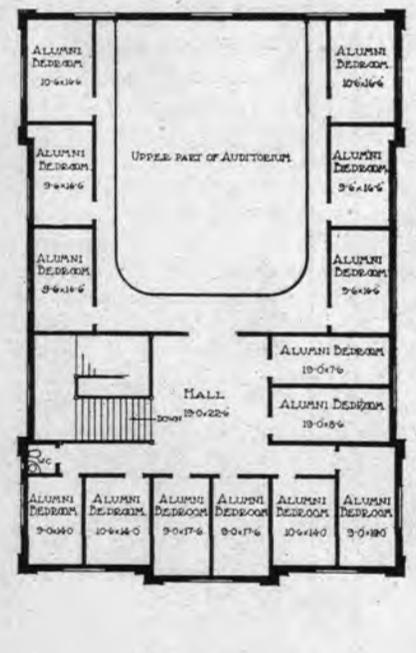
W. Morton Barrows, '03, who is taking post-graduate work at Cambridge, has been awarded one of the Austin teaching fellowships and appointed Instructor in Geology in Harvard College under Dean Shaler. This requires half his working time for instruction and allows the remainder for study and research leading to an advanced degree. He continues work as assistant in the zoological laboratory.



BASEMENT PLAN



FIRST FLOOR PLAN



SECOND FLOOR PLAN

TITLE OF ORATION.	NAMES OF JUDGES ON MANUSC'PT									SUMMARY						NAMES OF JUDGES ON DELIVERY.						SUMMARIES.			
	Stevens			Stanson			Chamberlain			ON MANUSCRIPT			Moore		Ward		Crotty		On Delivery		Final Summary				
	Gr'de	Rank		Gr'de	Rank		Gr'de	Rank		Of R'ks	Of Gr'ds	Rank	Gr'de	Rank	Gr'de	Rank	Gr'de	Rank	Of R'ks	Rank	Of Rank	Of Gr'ds			
A Crisis in a Nation's Destiny, M. J. Dorsey.....	94	1		86	8		95	1		10		2	80	5	60	7	62	8	20	7	30	6			
John Paul Jones, Helen Ashley.....	81	8		91	4		80	7		19		8	70	8	58	8	67	7	23	8	42	8			
Our National Peril, Ray Potts.....	93	2		90	5		91	2		9		1	75	7	88	3	70	5	15	6	24	3			
To be an American, H. H. Hogue.....	80	9		85	9		63	9		27		9	82	3	80	4	84	1	8	1	35	7			
Our National Ideal, W. P. Wilson.....	87	3		87	7		80	3		12	263	3	78	6	89	2	74	4	12	5	25	4			
The Development of a National Conscience, Gertrude Peters	84	5		93	2		82	5		12	250	4	84	2	69	6	77	2	10	3	22	1			
The Peril of Commercialism, E. N. Bates.....	83	6		88	6		81	6		18		7	87	1	90	1	69	6	8	1	26	5			
Cavour, Helen Andrews.....	86	4		92	3		72	8		15		6	66	9	45	9	59	9	27	9	42	8			
Ideals of Success, Zae Northrop.....	82	7		94	1		83	4		12	259	4	81	4	70	5	77	2	11	4	23	2			

The above table which should have been published last week, but was crowded out on account of lack of space, gives the names of the con-

testants, with subjects, in the recent oratorical. Second place, won by Miss Northrop, should have been credited to the Sororian Society, in-

stead of Themian as stated last week, as Miss Northrop is a member of the former.

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 & Gun Metal Calf
 Button or Blucher.

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 feet are entitled to the highest
 consideration you will ask for
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C. D. Woodbury's ^{hoe} _{store} Hollister Block.

A B O U T T H E C A M P U S .

Mrs. Richard Yates (Kate Gunn) is spending the holidays with her mother.

The barber shop will be open on Wednesdays and Saturdays during vacation.

Sec. Hurst left Friday for Elk Rapids, where he will spend the holidays.

Miss Rubie Newman '03-'04 was the guest of her brother one day the past week.

Miss Georgia Perry of Charlotte visited her sister, Miss Gace Perry over Sunday, Dec. 10.

R. D. Maltby, '04, called on friends at the college last week while on his way to the International.

Club B, Abbot hall, will be open during the vacation. Mr. Hogue, steward, will have charge.

The brick laying will soon be completed on the new dormitory and work on the roof will soon begin.

Mr. and Mrs. J. W. Chapin, of Eden, Mich., visited their daughter, Ethel Chapin, '08, Wednesday of last week.

The new M. A. C. Directory issued by the Y. M. and Y. W. C. C. have been distributed. Did you get one?

I. N. Walker, supt. of poor of Genesee county, paid his nephew, Instructor Walker, a hurried visit Thursday.

Prof. Jeffery was in Holland Friday and Saturday of last week where he conducted institutes. From there

he goes to Petoskey, Charlevoix and Manton.

On Jan. 5, Prof. Barrows will speak before the Scrooby club of Pilgrim Congregational church on "Our Wild Bird Life."

Prices of board in the various clubs for the term ranges as follows: A, \$2.80; B, \$2.73; C, \$2.00; E, \$2.66; F, \$2.36; G, \$2.55.

Mr. and Mrs. Heltz of Buffalo spent several days with Instructor Newman and wife recently, Mrs. Heltz being an aunt of Mrs. N.

The State Association of Farmers' Clubs held its annual meeting in Lansing the past week, quite a number of the delegates visiting the College.

In the November number of "White's Class Advertising" appears a fine halftone of C. P. Reynolds with '02, editor of the *Prairie Farmer*.

The following officers have been elected by the horticulture club for the winter term: O. K. White, Pres.; Moses Craig, Vice Pres.; T. H. McHatton, Sec.

Work is moving along very nicely with the new carpenter and forge shops and it is expected that they will be in readiness for the special course students Jan. 3.

Prof. Thomas Shaw of Minnesota has been secured as one of the speakers at the Round-up. His subject will be forage crops, stock breeding and stock feeding.

The usual reduced rate has been secured for institute workers during

the coming winter. The rate for the round-up will be one fare for the round trip plus 25c where the fare is over \$1.

The stewards of the various clubs elected for the winter term are: Club A, L. B. Hitchcock; B, H. H. Hogue; C, Miss Colwell; E, S. B. Lilly; F, G. P. Boomsliter; G, A. W. Wilson.

Olympic officers for next term are: Pres., I. M. Phippeny; Vice Pres., A. H. Chase; Sec., C. E. Merwin; Treas., F. J. Hewson; RECORD Editor, P. H. Shuttleworth; Marshal, W. H. Small.

Among those who have spent some time in college previous to this year and will return for the winter term's work are: F. D. Linkletter, Traverse City; H. H. Curtis, Lyons, and Leroy Burrell, South Haven.

Instructor Rostengel will make a trip to Texas during his vacation. Mr. Blair goes to Ripley, Ohio, Miss Colwell to Grandville, Ohio, Miss Avery to her home in Oberlin, Mr. and Mrs. Myers will visit their former home in Illinois.

The Union Literary Society elected the following officers for the winter term: Pres., L. M. Spencer; Vice Pres., O. A. Kratz; Sec., R. G. Carr; Treas., E. A. Willson; Janitor, M. F. Johnson; RECORD Editor, E. A. Willson.

Through the courtesy of Mr. Richard L. Humphrey, of the Structural Materials Testing Laboratory, St. Louis, Mo., the mechanical department has been furnished

with fifty copies of "Standard Specifications for Cement."

Dean Gilchrist and her mother will spend the holidays in Chicago.

The old campus seems quite deserted. About 400 certificates were issued.

The Eclectic Society has elected the following officers for the winter term: Pres., E. H. Weider; Vice Pres., K. F. Ranger; Sec., H. R. Beckwith; Treas., A. S. Van Haltern; RECORD Editor, E. C. Buss; Marshal, T. C. Beach; Warden, A. T. Barley; Librarian, G. B. Hayes.

The Ero Alphan Society have elected the following officers for the winter term: Pres., Grace Owen; Vice Pres., Jennie Clawson; Sec., Nina Brandstetter; Treas., Aleen Raynor; Marshal, Alzina Holmes; Record Editor, Lelah Burkhart.

A program of the West Virginia Dairy Association, to be held at Clarksburg Dec. 22, has been received. W. K. Brainard, '99, secretary-treasurer of the association, will have a place on the program, and Prof. Smith gives an address before the association and also has charge of the judging butter exhibit.

Director Brewer will be at the college during the vacation. Considerable work is being done on the field. The Armory will be cleaned up and the apparatus overhauled and repaired so that everything will be in readiness for the winter term. Some good basketball games and indoor meets are expected.

'03.

In a recent issue of the *Michigan Farmer* appears an article entitled "How to Keep the Boys on the Farm," by S. B. Hartman, of the above class. Mr. Hartman gives six suggestions on this subject, and No. 6 strikes so nearly at home that we publish it in full.

"6. We can give those who show an aptitude or preference for agricultural pursuits, or who show no especial desire for other occupations, a chance to attend an agricultural college at least for eight weeks during the winter. Of course a four-year course is much more desirable if the time and money and previous education to take it is forthcoming, but no farmer or farmer's boy is too poor to afford an eight-weeks' course at our M. A. C. Being a graduate of the college myself, and having met many who have taken the short courses here offered, I can unhesitatingly advise them for the farmers' boy who cannot take a full college course. We support the institution and our boys and girls should receive its benefits. I can frankly say that when I entered this institution it was not with the intention of becoming a farmer, but I changed my mind before my course was half completed. For this reason I can see no force in the argument advanced by those unfamiliar with the institution that it educates away from the farm. If we would keep our boys on the farm let us first make the farm life pleasant and attractive to them, and second, give them training for the occupation which will enable them to enjoy a rural life and get the most out of their profession.

While at the Horticultural Meeting in Grand Rapids recently, Prof. Fletcher and Mr. Gunson had a conference with many of the leading lettuce growers in that city concerning certain difficulties which the growers are meeting with. A disease has appeared within the past few years that is working havoc to the industry. About \$5,000 worth of lettuce was ruined the past year. The Department of Horticulture is now installing experiments in the green houses looking toward the control of the disease, and will also undertake experiments at Grand Rapids. Both Messrs. Eugene Davis and W. S. Strong kindly proffered the use of their houses for this purpose. The extent of the lettuce industry in Grand Rapids may be partially realized when it is known that from that city was shipped 1,000 tons of lettuce last year.

Prof. Holdsworth and wife left Thursday morning for Santa Barbara, Cal., where they will spend the winter. They will occupy a cottage owned by Mrs. L. C. Stevens, mother of K. B. Stevens, '06. It is sincerely hoped that Prof. H. will return to us in the spring greatly improved in health.

The Experiment Station was granted a gold medal for its exhibit of apples at St. Louis. Following is a description of the diploma of award:

The central figure of the composition, a robust, clear-eyed maiden in her first youth, Columbia, looks forward with unclouded brow intent upon a future beyond the act which she represents, placing one hand in sign of possession upon the globe,

typifying the territorial acquisition, which is offered by her sister France seated at her right. Simultaneously from her other hand she passes on the torch of progress to her messenger the youth of her country who with winged feet stands ready to depart on his mission of civilization towards the western sun which irradiates the sky. Columbia is draped with the flag, chosen as the symbol above all others, which is recognized to the farthest limits of the world and denotes the country where was the Exposition that issued the Diploma. France wearing the costume of the period of the cession of the Louisiana Territory is by a voluntary anachronism depicted with the Imperial crown for while the act of cession was accomplished in the interim of the Consulate it was a step in the progress of Napoleon, and Imperial France remains in our memories today as relinquishing the territory which our younger nation has so notably developed. The border of a Classic-Empire design encloses the names of the States of the Union, prominence being given to those comprising the territorial acquisition, while the fourteen stars in the tablet below still further emphasize their importance.

The diploma is 16 x 18 inches in size; it was designed by Will H. Low and reproduced by Gilbo & Company in a sepia tint upon Imperial Japanese paper 21 x 24 inches in size.

The State Grange held their annual meeting in Grand Rapids the past week. Those attending from M. A. C. were Pres. Snyder, Dr. Beal Prof. Jeffery and Prof. Taft. In the agricultural section Dr. Beal gave a talk regarding the passage of a law for the inspection of clover and grass seeds. Prof. Jeffery judged corn and Prof. Taft judged fruits and vegetables.

Accuracy is invincible.

Ability is measured by deeds.

Never try to teach Experience.

The following report shows weather conditions for the month of November.

Date	Temperature		Prevailing Wind	Character of Day
	max.	min.		
1	32	27	W. & N.	
2	40	20	S. & S. E.	
3	41	33	W. & N. W.	
4	50	29	W. & E.	Very pleasant
5	44	33	E. & E.	
6	44	37	N. W. & W.	
7	35	34	S. W. & W.	Snow
8	35	32	N. W. & W.	"
9	36	28	W. W.	
10	43	23	S. W. & S. W.	Pleasant
11	51	27	S. W. & S. W.	"
12	50	38	S. W. & S. W.	Snow
13	44	32	S. & N. E.	
14	33	12	S. & S.	
15	43	27	S. W. & S. W.	
16	36	33	N. W. N. W.	
17	55	32	S. W. & N.	Pleasant
18	47	24	N. E. & N.	
19	45	23	N. E. & N. E.	"
20	38	25	E. & E.	"
21	42	18	E. & S. E.	"
22	47	25	S. E. & S.	"
23	57	34	S. W. & S. W.	"
24	51	44	S. W. & W.	High wind
25	41	32	S. & S.	
26	41	34	S. W. & W.	
27	38	25	E. & S. E.	
28	71	34	S. E. & S. W.	Very Warm
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